



Material - UNI G18Mo5

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - UNI G18Mo5 Steel Castings for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 - 1.200		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.450 - 0.650		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 440 - 590 Yield Strength in Mpa 240 min. Elongation in % 23 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G18Mo5	BS	British	Plate, Tubes and Forging
1.5422	ISO	International	Casting
G18Mo5	ISO	International	Casting
G18Mo5	EN	European Union	Casting
G18Mo5	DIN	Germany	Casting
G18Mo5	MSZ	Hungary	Casting
G18Mo5	PN	Poland	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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